

MANAGING AND CONTROLLING ROLE BASE ACCESS CONTROL SYSTEM OF ON-LINE VISA

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Abstract

Data security is one of the most crucial and a major challenge in the digital world. Security, privacy and integrity of data are demanded in every operation performed on internet. This paper focuses on implementing the managing and controlling Role Base Access Control System of on-line visa for Ministry of Immigration and Population. According to access central database, the proposed system, online visa application creates the access rights for different types of users, such as, user, immigration data checker, visa board ministries, immigration EC and Immigration Head Office. Role Based Access Control (RBAC) manages the authentication and authorization of users in all different security domains of an organization. A centralized database is easier to maintain and keep updated since all the data are stored in a single location. The process of defining roles should be based on a thorough analysis of how an organization operates and should include input from a wide spectrum of users in an organization. Access rights are grouped by role name, and the use of resources is restricted to individuals authorized to assume the associated role. The function of RBAC authentication is to create, distribute, and manage digital credentials for the users. This system is implemented by using MySQL and PHP.